

Visualization of geometry shapes

Recently implemented feature: visualization of geometry shapes of the input deck

```
Material
{
  name = GaAs
  tag = gaas_region
  crystal_structure = zincblende
  regions = (1,3)
}
```

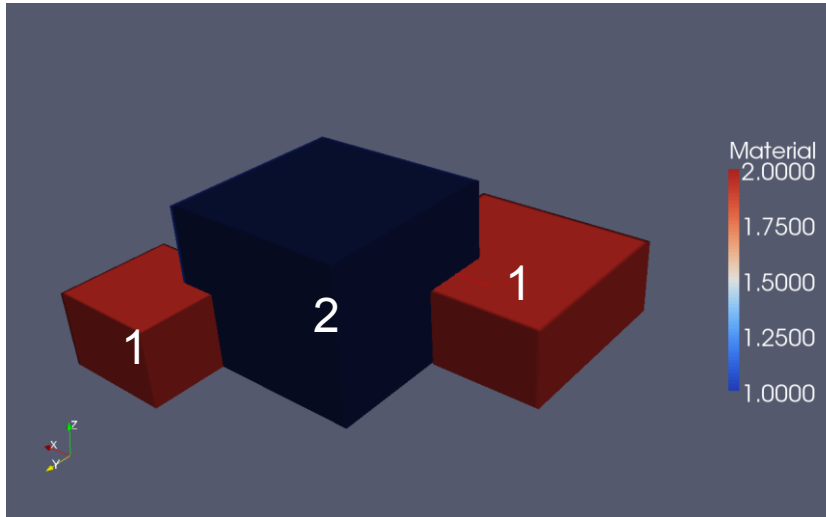
```
Material
{
  name = InAs
  tag = inas_region
  crystal_structure = zincblende
  regions = (2)
}
```

```
Geometry
{
  Region
  {
    shape           = cuboid
    region_number   = 1
    priority        = 1
    min             = ( 0,0,0)
    max             = ( 5,5,2)
  }
  Region
  {
    shape           = cuboid
    region_number   = 2
    priority        = 2
    min             = (3,3,0)
    max             = (8,8,4)
  }
  Region
  {
    shape           = cuboid
    region_number   = 3
    priority        = 1
    min             = (7,7,0)
    max             = (10,10,2)
  }
}
```

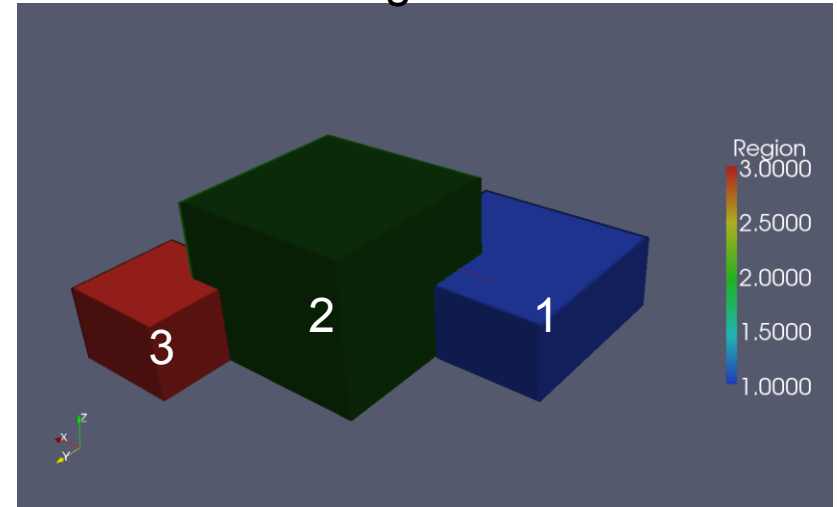
Two materials and 3 regions are defined.

Visualization of the shapes by a special solver

Materials



Regions



```
solver
{
    name = view_shapes
    type = GeometryVIS
    geometry_volumes_output = true
    geometry_volumes_resolution = 40
    geometry_volumes_filename = regions.vtk
}
```